



### PROBLEM 2.46

Two cables are tied together at  $C$  and are loaded as shown. Knowing that  $P = 500 \text{ N}$  and  $\alpha = 60^\circ$ , determine the tension in (a) in cable  $AC$ , (b) in cable  $BC$ .

### SOLUTION

#### Free-Body Diagram



#### Force Triangle



Law of sines:

$$\frac{T_{AC}}{\sin 35^\circ} = \frac{T_{BC}}{\sin 75^\circ} = \frac{500 \text{ N}}{\sin 70^\circ}$$

(a)

$$T_{AC} = \frac{500 \text{ N}}{\sin 70^\circ} \sin 35^\circ$$

$$T_{AC} = 305 \text{ N} \quad \blacktriangleleft$$

(b)

$$T_{BC} = \frac{500 \text{ N}}{\sin 70^\circ} \sin 75^\circ$$

$$T_{BC} = 514 \text{ N} \quad \blacktriangleleft$$

# Static Vector For Engineers By Beer 10th

**Lauren Gardner**



**Static Vector For Engineers By Beer 10th:**

The book delves into Static Vector For Engineers By Beer 10th. Static Vector For Engineers By Beer 10th is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Static Vector For Engineers By Beer 10th, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Static Vector For Engineers By Beer 10th
    - Chapter 2: Essential Elements of Static Vector For Engineers By Beer 10th
    - Chapter 3: Static Vector For Engineers By Beer 10th in Everyday Life
    - Chapter 4: Static Vector For Engineers By Beer 10th in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Static Vector For Engineers By Beer 10th. The first chapter will explore what Static Vector For Engineers By Beer 10th is, why Static Vector For Engineers By Beer 10th is vital, and how to effectively learn about Static Vector For Engineers By Beer 10th.
  3. In chapter 2, the author will delve into the foundational concepts of Static Vector For Engineers By Beer 10th. The second chapter will elucidate the essential principles that must be understood to grasp Static Vector For Engineers By Beer 10th in its entirety.
  4. In chapter 3, this book will examine the practical applications of Static Vector For Engineers By Beer 10th in daily life. The third chapter will showcase real-world examples of how Static Vector For Engineers By Beer 10th can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Static Vector For Engineers By Beer 10th in specific contexts. The fourth chapter will explore how Static Vector For Engineers By Beer 10th is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Static Vector For Engineers By Beer 10th. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Static Vector For Engineers By Beer 10th.

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